

## PATENT COOPERATION TREATY

PCT

## NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Assistant Commissioner for Patents  
United States Patent and Trademark  
Office  
Box PCT  
Washington, D.C. 20231  
ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 24 October 2000 (24.10.00)	
International application No. PCT/JP00/01482	Applicant's or agent's file reference 99/8094-SNY
International filing date (day/month/year) 10 March 2000 (10.03.00)	Priority date (day/month/year) 10 March 1999 (10.03.99)
Applicant IKEDA, Yasunari et al	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:04 October 2000 (04.10.00)☐ in a notice effecting later election filed with the International Bureau on:2. The election ☒ was☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Henrik Nyberg Telephone No.: (41-22) 338.83.38
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**PCT**

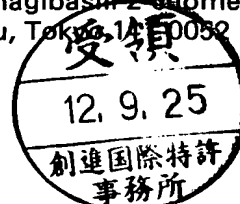
**NOTICE INFORMING THE APPLICANT OF THE  
COMMUNICATION OF THE INTERNATIONAL  
APPLICATION TO THE DESIGNATED OFFICES**

(PCT Rule 47.1(c), first sentence)

From the INTERNATIONAL BUREAU

To:

SATOH, Takahisa  
Sohshin International Patent Office  
4f Miyaki Building  
4-2, Yanagibashi 2-chome  
Taito-ku, Tokyo 110-0052  
JAPON



2710

<b>Date of mailing (day/month/year)</b> 14 September 2000 (14.09.00)		
<b>Applicant's or agent's file reference</b> 99/8094-SNY		<b>IMPORTANT NOTICE</b>
<b>International application No.</b> PCT/JP00/01482	<b>International filing date (day/month/year)</b> 10 March 2000 (10.03.00)	<b>Priority date (day/month/year)</b> 10 March 1999 (10.03.99)
<b>Applicant</b> SONY CORPORATION et al		

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice:  
**AU, KP, KR, US**

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:  
**AE, AL, AM, AP, AT, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EA, EE, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, OA, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW**  
 The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).
3. Enclosed with this Notice is a copy of the international application as published by the International Bureau on  
 14 September 2000 (14.09.00) under No. WO 00/54445

**REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)**

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

**REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))**

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

<p style="text-align: center;">The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland</p>	<p>Authorized officer</p> <p style="text-align: center;">J. Zahra</p>
Facsimile No. (41-22) 740.14.35	Telephone No. (41-22) 338.83.38

## PCT COOPERATION TREATY

PCT

NOTIFICATION CONCERNING  
SUBMISSION OR TRANSMITTAL  
OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

From the INTERNATIONAL BUREAU

To:

SATOH, Takahisa  
Sohshin International Patent Office  
4f Miyaki Building  
4-2, Yanagibashi 2-chome  
Taito-ku, Tokyo 111-0052  
JAPON

Date of mailing (day/month/year) 28 March 2000 (28.03.00)	<b>IMPORTANT NOTIFICATION</b>
Applicant's or agent's file reference 99/8094-SNY	
International application No. PCT/JP00/01482	
International publication date (day/month/year) Not yet published	
International filing date (day/month/year) 10 March 2000 (10.03.00)	Priority date (day/month/year) 10 March 1999 (10.03.99)
Applicant SONY CORPORATION et al	

- The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
- An asterisk(\*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

<u>Priority date</u>	<u>Priority application No.</u>	<u>Country or regional Office or PCT receiving Office</u>	<u>Date of receipt of priority document</u>
10 Marc 1999 (10.03.99)	11/63394	JP	24 Marc 2000 (24.03.00)

The International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

Facsimile No. (41-22) 740.14.35

Authorized officer

Y. KUWAHARA

Telephone No. (41-22) 338.83.38

## PATENT COOPERATION TREATY

PCT

INFORMATION CONCERNING ELECTED  
OFFICES NOTIFIED OF THEIR ELECTION

(PCT Rule 61.3)

From the INTERNATIONAL BUREAU

To:

SATOH, Takahisa  
Sohshin International Patent Office  
4f Miyaki Building  
4-2, Yanagibashi 2-chome  
Taito-ku, Tokyo 111-0052  
JAPON

0404

Date of mailing (day/month/year) 24 October 2000 (24.10.00)		
Applicant's or agent's file reference 99/8094-SNY		IMPORTANT INFORMATION
International application No. PCT/JP00/01482	International filing date (day/month/year) 10 March 2000 (10.03.00)	Priority date (day/month/year) 10 March 1999 (10.03.99)
Applicant SONY CORPORATION et al		

1. The applicant is hereby informed that the International Bureau has, according to Article 31(7), notified each of the following Offices of its election:

AP : GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW

EP : AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

National : AU, BG, CA, CN, CZ, DE, IL, JP, KP, KR, MN, NO, NZ, PL, RO, RU, SE, SK, US

2. The following Offices have waived the requirement for the notification of their election; the notification will be sent to them by the International Bureau only upon their request:

EA : AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

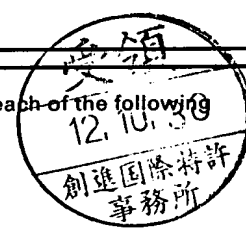
OA : BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

National : AE, AL, AM, AT, AZ, BA, BB, BR, BY, CH, CR, CU, DK, DM, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IN, IS, KE, KG, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MW, MX, PT, SD,  
SG, SI, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW

3. The applicant is reminded that he must enter the "national phase" before the expiration of 30 months from the priority date before each of the Offices listed above. This must be done by paying the national fee(s) and furnishing, if prescribed, a translation of the international application (Article 39(1)(a)), as well as, where applicable, by furnishing a translation of any annexes of the international preliminary examination report (Article 36(3)(b) and Rule 74.1).

Some offices have fixed time limits expiring later than the above-mentioned time limit. For detailed information about the applicable time limits and the acts to be performed upon entry into the national phase before a particular Office, see Volume II of the PCT Applicant's Guide.

The entry into the European regional phase is postponed until 31 months from the priority date for all States designated for the purposes of obtaining a European patent.

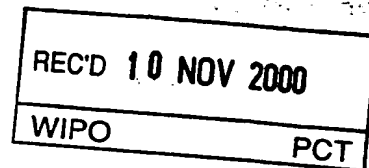


<p>The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland</p> <p>Facsimile No. (41-22) 740.14.35</p>	<p>Authorized officer: Henrik Nyberg</p> <p>Telephone No. (41-22) 338.83.38</p>
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PCT


国際予備審査報告

(法第12条、法施行規則第56条)  
(PCT36条及びPCT規則70)



出願人又は代理人 の書類記号 99/8094-SNY	今後の手続きについては、国際予備審査報告の送付通知(様式PCT/ IPEA/416)を参照すること。	
国際出願番号 PCT/JP00/01482	国際出願日 (日.月.年) 10.03.00	優先日 (日.月.年) 10.03.99
国際特許分類(IPC) Int. Cl. H04J11/00		
出願人(氏名又は名称) ソニー株式会社		

1. 国際予備審査機関が作成したこの国際予備審査報告を法施行規則第57条(PCT36条)の規定に従い送付する。
2. この国際予備審査報告は、この表紙を含めて全部で 3 ページからなる。  <input type="checkbox"/> この国際予備審査報告には、附属書類、つまり補正されて、この報告の基礎とされた及び/又はこの国際予備審査機関に対してした訂正を含む明細書、請求の範囲及び/又は図面も添付されている。 (PCT規則70.16及びPCT実施細則第607号参照) この附属書類は、全部で ページである。
3. この国際予備審査報告は、次の内容を含む。  I <input checked="" type="checkbox"/> 国際予備審査報告の基礎 II <input type="checkbox"/> 優先権 III <input type="checkbox"/> 新規性、進歩性又は産業上の利用可能性についての国際予備審査報告の不作成 IV <input type="checkbox"/> 発明の単一性の欠如 V <input checked="" type="checkbox"/> PCT35条(2)に規定する新規性、進歩性又は産業上の利用可能性についての見解、それを裏付けるための文献及び説明 VI <input type="checkbox"/> ある種の引用文献 VII <input type="checkbox"/> 国際出願の不備 VIII <input type="checkbox"/> 国際出願に対する意見

国際予備審査の請求書を受理した日 04.10.00	国際予備審査報告を作成した日 19.10.00	
名称及びあて先 日本国特許庁(IPEA/JP) 郵便番号100-8915 東京都千代田区霞が関三丁目4番3号	特許庁審査官(権限のある職員)  高野 洋 	5K 9647  電話番号 03-3581-1101 内線 3555

## I. 国際予備審査報告の基礎

1. この国際予備審査報告は下記の出願書類に基づいて作成された。(法第6条(PCT14条)の規定に基づく命令に  
 応答するために提出された差し替え用紙は、この報告書において「出願時」とし、本報告書には添付しない。  
 PCT規則70.16, 70.17)

☒ 出願時の国際出願書類

- ☐ 明細書 第 \_\_\_\_\_ ページ、 出願時に提出されたもの  
 明細書 第 \_\_\_\_\_ ページ、 国際予備審査の請求書と共に提出されたもの  
 明細書 第 \_\_\_\_\_ ページ、 \_\_\_\_\_ 付の書簡と共に提出されたもの
- ☐ 請求の範囲 第 \_\_\_\_\_ 項、 出願時に提出されたもの  
 請求の範囲 第 \_\_\_\_\_ 項、 PCT19条の規定に基づき補正されたもの  
 請求の範囲 第 \_\_\_\_\_ 項、 国際予備審査の請求書と共に提出されたもの  
 請求の範囲 第 \_\_\_\_\_ 項、 \_\_\_\_\_ 付の書簡と共に提出されたもの
- ☐ 図面 第 \_\_\_\_\_ ページ/図、 出願時に提出されたもの  
 図面 第 \_\_\_\_\_ ページ/図、 国際予備審査の請求書と共に提出されたもの  
 図面 第 \_\_\_\_\_ ページ/図、 \_\_\_\_\_ 付の書簡と共に提出されたもの
- ☐ 明細書の配列表の部分 第 \_\_\_\_\_ ページ、 出願時に提出されたもの  
 明細書の配列表の部分 第 \_\_\_\_\_ ページ、 国際予備審査の請求書と共に提出されたもの  
 明細書の配列表の部分 第 \_\_\_\_\_ ページ、 \_\_\_\_\_ 付の書簡と共に提出されたもの

2. 上記の出願書類の言語は、下記に示す場合を除くほか、この国際出願の言語である。

上記の書類は、下記の言語である \_\_\_\_\_ 語である。

- ☐ 国際調査のために提出されたPCT規則23.1(b)にいう翻訳文の言語  
☐ PCT規則48.3(b)にいう国際公開の言語  
☐ 国際予備審査のために提出されたPCT規則55.2または55.3にいう翻訳文の言語

3. この国際出願は、ヌクレオチド又はアミノ酸配列を含んでおり、次の配列表に基づき国際予備審査報告を行った。

- ☐ この国際出願に含まれる書面による配列表  
☐ この国際出願と共に提出されたフレキシブルディスクによる配列表  
☐ 出願後に、この国際予備審査(または調査)機関に提出された書面による配列表  
☐ 出願後に、この国際予備審査(または調査)機関に提出されたフレキシブルディスクによる配列表  
☐ 出願後に提出した書面による配列表が出願時における国際出願の開示の範囲を超える事項を含まない旨の陳述書の提出があった  
☐ 書面による配列表に記載した配列とフレキシブルディスクによる配列表に記載した配列が同一である旨の陳述書の提出があった。

4. 補正により、下記の書類が削除された。

- ☐ 明細書 第 \_\_\_\_\_ ページ  
☐ 請求の範囲 第 \_\_\_\_\_ 項  
☐ 図面 図面の第 \_\_\_\_\_ ページ/図

5. ☐ この国際予備審査報告は、補充欄に示したように、補正が出願時における開示の範囲を越えてされたものと認められるので、その補正がされなかったものとして作成した。(PCT規則70.2(c) この補正を含む差し替え用紙は上記1.における判断の際に考慮しなければならない、本報告に添付する。)

## V. 新規性、進歩性又は産業上の利用可能性についての法第12条(PCT35条(2))に定める見解、それを裏付ける文献及び説明

## 1. 見解

新規性(N)

請求の範囲 1-17

有

請求の範囲

無

進歩性(IS)

請求の範囲 1-17

有

請求の範囲

無

産業上の利用可能性(IA)

請求の範囲 1-17

有

請求の範囲

無

## 2. 文献及び説明(PCT規則70.7)

文献1: WO99/01956, A1

(株式会社次世代デジタルテレビジョン放送システム研究所),

14. 1月. 1999 (14. 01. 99),

FIG. 1, FIG. 2, FIG. 3, FIG. 8

文献2: JP, 6-113272, A (株式会社東芝),

22. 4月. 1994 (22. 04. 94),

第4頁右欄第30行目-第5頁左欄第10行目, 第4図

文献3: 映像メディア学会誌, (日),

20, 11月. 1998 (20. 11. 98),

Vol. 52, No. 11, p. 1562-1566,

“4. 地上デジタル放送の開発動向4-1伝送方式”,

第10図, 第11図, 第12図

文献4: 技研公開講演・研究発表予稿集, (日),

22. 5月. 1998 (22. 05. 98), p. 67-72,

“地上デジタル放送の伝送方式~固定受信および移動受信における伝送特性”, 第69頁第14行目-第70頁第29行目

文献1, 3, 4には、各放送チャネル(OFDM信号内の各セグメント)毎に、副信号を設定する技術が記載されている。

文献2には、受信信号の状態に応じて、誤り訂正が実施不可能になるとき複合回路の動作を制御する技術が記載されている。

請求の範囲1-6, 14-17

請求の範囲1に記載の“放送チャネルの周波数に応じて設定された初期値に基づき、PRBSを発生する”ことは、上記のいずれの文献にも記載されておらず、当業者によって自明のものでもない認められる。

また、請求の範囲2, 3, 4, 5, 6, 14は、請求の範囲1を引用している。

また、請求の範囲15, 17は、請求の範囲14を引用している。

また、請求の範囲16は、請求の範囲15を引用している。

請求の範囲7-13

請求の範囲7に記載の“放送チャネルの周波数に応じて設定されたパラメータを用いて、分離された主信号を逆インターリーブ処理する”ことは、上記のいずれの文献にも記載されておらず、当業者によって自明のものでもない認められる。

また、請求の範囲8-13は、請求の範囲7を引用している。

## PCT

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 99/8094-SNY	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/JP00/01482	International filing date (day/month/year) 10 March 2000 (10.03.00)	Priority date (day/month/year) 10 March 1999 (10.03.99)
International Patent Classification (IPC) or national classification and IPC H04J 11/00		
Applicant SONY CORPORATION		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 3 sheets, including this cover sheet.

☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of \_\_\_\_\_ sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 04 October 2000 (04.10.00)	Date of completion of this report 19 October 2000 (19.10.2000)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.



## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP00/01482

## I. Basis of the report

## 1. With regard to the elements of the international application:\*

- ☒ the international application as originally filed
- ☐ the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the claims:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, as amended (together with any statement under Article 19  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the drawings:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/fig \_\_\_\_\_

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP00/01482

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N)	Claims	1-17	YES
	Claims		NO
Inventive step (IS)	Claims	1-17	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-17	YES
	Claims		NO

### 2. Citations and explanations

Document 1: WO, 99/01956, A1 (Advanced Digital Television Broadcasting), 14 January, 1999 (14.01.99); Figs. 1, 2, 3, 8

Document 2: JP, 6-113272, A (Toshiba Corporation), 22 April, 1994 (22.04.94); page 4, right column, line 30 to page 5, left column, line 10; Fig. 4

Document 3: '4. Development Trends in Terrestrial Digital Broadcasting, 4-1 Transmission Systems', Journal of the Institute of Image Information and Television Engineers (in Japanese), 20 November, 1998, Vol. 52, No. 11, pages 1562-1566; Figs. 10, 11, 12

Document 4: 'Transmission Systems for Terrestrial Digital Broadcasting – Transmission Characteristics for Fixed Reception and Mobile Reception', Proceedings of Public Lectures and Research Presentations of Giken (in Japanese), 22 May, 1998, pages 67-72; see page 69, line 14 to page 70, line 29

Documents 1, 3 and 4 each disclose art in which an auxiliary signal is established for each broadcasting channel (i.e. each segment within the OFDM signal).

Document 2 discloses art in which the operation of a decoding circuit is controlled when it becomes impossible to carry out error correction, this being in line with the state of the reception signal.

#### Claims 1-6, 14-17

The idea disclosed in claim 1 of 'generating a PRBS based on the initial value that has been set in line with the frequency of the broadcasting channel' is neither disclosed in any of the aforementioned documents nor considered to be obvious to a person skilled in the art.

Moreover, claims 2, 3, 4, 5, 6 and 14 cite claim 1; claims 15 and 17 cite claim 14; claim 16 cites claim 15.

#### Claims 7-13

The idea disclosed in claim 7 of 'reverse-interleaving the separated main signal using a parameter that has been set in line with the frequency of the broadcasting channel' is neither disclosed in any of the above-mentioned documents nor considered to be obvious to a person skilled in the art.

Moreover, claims 8-13 cite claim 7.

## PATENT COOPERATION TREATY

**PCT**  
**NOTIFICATION OF TRANSMITTAL**  
**OF COPIES OF TRANSLATION**  
**OF THE INTERNATIONAL PRELIMINARY**  
**EXAMINATION REPORT**

(PCT Rule 72.2)

From the INTERNATIONAL BUREAU

To:

SATOH, Takahisa  
 Sohshin International Patent Office  
 4f Miyaki Building  
 4-2, Yanagibashi 2-chome  
 Taito-ku, Tokyo 111-0052  
 JAPON

**4143**

Date of mailing (day/month/year) 02 April 2001 (02.04.01)	<b>IMPORTANT NOTIFICATION</b>
Applicant's or agent's file reference 99/8094-SNY	
International application No. PCT/JP00/01482	International filing date (day/month/year) 10 March 2000 (10.03.00)
Applicant SONY CORPORATION et al	

**1. Transmittal of the translation to the applicant.**

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

**2. Transmittal of the copy of the translation to the elected Offices.**

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

EP,AT,AU,CA,CH,CN,CZ,FI,KP,NO,NZ,PL,RO,RU,SK,US

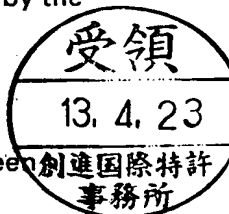
The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AP,EA,AE,AL,AM,AZ,BA,BB,BG,BR,BY,CR,CU,DE,DK,DM,EE,ES,GB,GD,GE,GH,GM,HR,HU,ID,IL,IN,IS,JP,KE,KG,KR,KZ,LC,LK,LR,LS,LT,LU,LV,MA,MD,MG,MK,MN,MW,MX,PT,SD,SE,SG,SI,SL,TJ,TM,TR,TT,TZ,UA,UG,UZ,VN,YU,ZA,ZW,OA

**3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).**

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.



The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland  Facsimile No. (41-22) 740.14.35	Authorized officer  Eliott Peretti  Telephone No. (41-22) 338.83.38
--	---

## PCT

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 99/8094-SNY	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/JP00/01482	International filing date (day/month/year) 10 March 2000 (10.03.00)	Priority date (day/month/year) 10 March 1999 (10.03.99)
International Patent Classification (IPC) or national classification and IPC H04J 11/00		
Applicant SONY CORPORATION		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 3 sheets, including this cover sheet.

☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of \_\_\_\_\_ sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 04 October 2000 (04.10.00)	Date of completion of this report 19 October 2000 (19.10.2000)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP00/01482

## I. Basis of the report

## 1. With regard to the elements of the international application:\*

- ☒ the international application as originally filed
- ☐ the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the claims:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, as amended (together with any statement under Article 19  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the drawings:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/fig \_\_\_\_\_

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP00/01482

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N)	Claims	1-17	YES
	Claims		NO
Inventive step (IS)	Claims	1-17	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-17	YES
	Claims		NO

### 2. Citations and explanations

Document 1: WO, 99/01956, A1 (Advanced Digital Television Broadcasting), 14 January, 1999 (14.01.99); Figs. 1, 2, 3, 8

Document 2: JP, 6-113272, A (Toshiba Corporation), 22 April, 1994 (22.04.94); page 4, right column, line 30 to page 5, left column, line 10; Fig. 4

Document 3: '4. Development Trends in Terrestrial Digital Broadcasting, 4-1 Transmission Systems', Journal of the Institute of Image Information and Television Engineers (in Japanese), 20 November, 1998, Vol. 52, No. 11, pages 1562-1566; Figs. 10, 11, 12

Document 4: 'Transmission Systems for Terrestrial Digital Broadcasting – Transmission Characteristics for Fixed Reception and Mobile Reception', Proceedings of Public Lectures and Research Presentations of Giken (in Japanese), 22 May, 1998, pages 67-72; see page 69, line 14 to page 70, line 29

Documents 1, 3 and 4 each disclose art in which an auxiliary signal is established for each broadcasting channel (i.e. each segment within the OFDM signal).

Document 2 discloses art in which the operation of a decoding circuit is controlled when it becomes impossible to carry out error correction, this being in line with the state of the reception signal.

#### Claims 1-6, 14-17

The idea disclosed in claim 1 of 'generating a PRBS based on the initial value that has been set in line with the frequency of the broadcasting channel' is neither disclosed in any of the aforementioned documents nor considered to be obvious to a person skilled in the art.

Moreover, claims 2, 3, 4, 5, 6 and 14 cite claim 1; claims 15 and 17 cite claim 14; claim 16 cites claim 15.

#### Claims 7-13

The idea disclosed in claim 7 of 'reverse-interleaving the separated main signal using a parameter that has been set in line with the frequency of the broadcasting channel' is neither disclosed in any of the above-mentioned documents nor considered to be obvious to a person skilled in the art.

Moreover, claims 8-13 cite claim 7.

## PATENT COOPERATION TREATY

PCT

NOTIFICATION OF RECEIPT OF  
RECORD COPY

(PCT Rule 24.2(a))



From the INTERNATIONAL BUREAU

To:

SATOH, Takahisa  
Sohshin International Patent Office  
4f Miyaki Building  
4-2, Yanagibashi 2-chome  
Taito-ku, Tokyo 111-0052  
JAPON

1112

Date of mailing (day/month/year) 28 March 2000 (28.03.00)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference 99/8094-SNY	International application No. PCT/JP00/01482

The applicant is hereby notified that the International Bureau has received the record copy of the international application as detailed below.

Name(s) of the applicant(s) and State(s) for which they are applicants:

SONY CORPORATION (for all designated States except US)

IKEDA, Yasunari et al (for US)

International filing date : 10 March 2000 (10.03.00)

Priority date(s) claimed : 10 March 1999 (10.03.99)

Date of receipt of the record copy  
by the International Bureau : 24 March 2000 (24.03.00)

List of designated Offices :

AP : GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW

EA : AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

EP : AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

OA : BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

National : AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW

## ATTENTION

The applicant should carefully check the data appearing in this Notification. In case of any discrepancy between these data and the indications in the international application, the applicant should immediately inform the International Bureau.

In addition, the applicant's attention is drawn to the information contained in the Annex, relating to:

☒ time limits for entry into the national phase

☒ confirmation of precautionary designations

☐ requirements regarding priority documents

A copy of this Notification is being sent to the receiving Office and to the International Searching Authority.

The International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

Facsimile No. (41-22) 740.14.35

Authorized officer:

Y. KUWAHARA

Telephone No. (41-22) 338.83.38

## INFORMATION ON TIME LIMITS FOR ENTERING THE NATIONAL PHASE

The applicant is reminded that the "national phase" must be entered before each of the designated Offices indicated in the Notification of Receipt of Record Copy (Form PCT/IB/301) by paying national fees and furnishing translations, as prescribed by the applicable national laws.

The time limit for performing these procedural acts is **20 MONTHS** from the priority date or, for those designated States which the applicant elects in a demand for international preliminary examination or in a later election, **30 MONTHS** from the priority date, provided that the election is made before the expiration of 19 months from the priority date. Some designated (or elected) Offices have fixed time limits which expire even later than 20 or 30 months from the priority date. In other Offices an extension of time or grace period, in some cases upon payment of an additional fee, is available.

In addition to these procedural acts, the applicant may also have to comply with other special requirements applicable in certain Offices. It is the applicant's responsibility to ensure that the necessary steps to enter the national phase are taken in a timely fashion. Most designated Offices do not issue reminders to applicants in connection with the entry into the national phase.

For detailed information about the procedural acts to be performed to enter the national phase before each designated Office, the applicable time limits and possible extensions of time or grace periods, and any other requirements, see the relevant Chapters of Volume II of the PCT Applicant's Guide. Information about the requirements for filing a demand for international preliminary examination is set out in Chapter IX of Volume I of the PCT Applicant's Guide.

GR and ES became bound by PCT Chapter II on 7 September 1996 and 6 September 1997, respectively, and may, therefore, be elected in a demand or a later election filed on or after 7 September 1996 and 6 September 1997, respectively, regardless of the filing date of the international application. (See second paragraph above.)

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

## CONFIRMATION OF PRECAUTIONARY DESIGNATIONS

This notification lists only specific designations made under Rule 4.9(a) in the request. It is important to check that these designations are correct. Errors in designations can be corrected where precautionary designations have been made under Rule 4.9(b). The applicant is hereby reminded that any precautionary designations may be confirmed according to Rule 4.9(c) before the expiration of 15 months from the priority date. If it is not confirmed, it will automatically be regarded as withdrawn by the applicant. There will be no reminder and no invitation. Confirmation of a designation consists of the filing of a notice specifying the designated State concerned (with an indication of the kind of protection or treatment desired) and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit.

## REQUIREMENTS REGARDING PRIORITY DOCUMENTS

For applicants who have not yet complied with the requirements regarding priority documents, the following is recalled.

Where the priority of an earlier national, regional or international application is claimed, the applicant must submit a copy of the said earlier application, certified by the authority with which it was filed ("the priority document") to the receiving Office (which will transmit it to the International Bureau) or directly to the International Bureau, before the expiration of 16 months from the priority date, provided that any such priority document may still be submitted to the International Bureau before that date of international publication of the international application, in which case that document will be considered to have been received by the International Bureau on the last day of the 16-month time limit (Rule 17.1(a)).

Where the priority document is issued by the receiving Office, the applicant may, instead of submitting the priority document, request the receiving Office to prepare and transmit the priority document to the International Bureau. Such request must be made before the expiration of the 16-month time limit and may be subjected by the receiving Office to the payment of a fee (Rule 17.1(b)).

If the priority document concerned is not submitted to the International Bureau or if the request to the receiving Office to prepare and transmit the priority document has not been made (and the corresponding fee, if any, paid) within the applicable time limit indicated under the preceding paragraphs, any designated State may disregard the priority claim, provided that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity to furnish the priority document within a time limit which is reasonable under the circumstances.

Where several priorities are claimed, the priority date to be considered for the purposes of computing the 16-month time limit is the filing date of the earliest application whose priority is claimed.



## 特許協力条約に基づく国際出願願書

原本（出願用） - 印刷日時 2000年03月10日（10. 03. 2000）金曜日 14時14分23秒

0	受理官庁記入欄	
0-1	国際出願番号	
0-2	国際出願日	
0-3	(受付印)	
0-4	様式-PCT/RO/101 この特許協力条約に基づく国際出願願書は、 0-4-1 右記によって作成された。	PCT-EASY Version 2.90 (updated 01. 01. 2000)
0-5	申立て 出願人は、この国際出願が特許協力条約に従って処理されることを請求する。	
0-6	出願人によって指定された受理官庁	日本国特許庁 (RO/JP)
0-7	出願人又は代理人の書類記号	99/8094-SNY
I	発明の名称	デジタル放送受信装置
II	出願人	
II-1	この欄に記載した者は	出願人である (applicant only)
II-2	右の指定国についての出願人である。	米国を除くすべての指定国 (all designated States except US)
II-4ja	名称	ソニー株式会社
II-4en	Name	SONY CORPORATION
II-5ja	あて名:	141-0001 日本国 東京都 品川区 北品川6丁目7番35号
II-5en	Address:	7-35, Kitashinagawa 6-chome, Shinagawa-ku, Tokyo 141-0001 Japan
II-6	国籍 (国名)	日本国 JP
II-7	住所 (国名)	日本国 JP
III-I	その他の出願人又は発明者	
III-I-1	この欄に記載した者は	出願人及び発明者である (applicant and inventor)
III-I-2	右の指定国についての出願人である。	米国のみ (US only)
III-I-4ja	氏名 (姓名)	池田 康成
III-I-4en	Name (LAST, First)	IKEDA, Yasunari
III-I-5ja	あて名:	141-0001 日本国 東京都 品川区 北品川6丁目7番35号
III-I-5en	Address:	ソニー株式会社内 c/o SONY CORPORATION 7-35, Kitashinagawa 6-chome, Shinagawa-ku, Tokyo 141-0001 Japan
III-I-6	国籍 (国名)	日本国 JP
III-I-7	住所 (国名)	日本国 JP

## 特許協力条約に基づく国際出願願書

原本（出願用） - 印刷日時 2000年03月10日 (10. 03. 2000) 金曜日 14時14分23秒

III-2 III-2-1	その他の出願人又は発明者 この欄に記載した者は	出願人及び発明者である (applicant and inventor) 米国のみ (US only)
III-2-2	右の指定国についての出願人である。	
III-2-4ja	氏名(姓名)	百代 俊久
III-2-4cn	Name (LAST, First)	HYAKUDAI, Toshihisa
III-2-5ja	あて名:	141-0001 日本国 東京都 品川区 北品川6丁目7番35号 ソニー株式会社内
III-2-5cn	Address:	c/o SONY CORPORATION 7-35, Kitashinagawa 6-chome, Shinagawa-ku, Tokyo 141-0001 Japan
III-2-6	国籍 (国名)	日本国 JP
III-2-7	住所 (国名)	日本国 JP
III-3 III-3-1	その他の出願人又は発明者 この欄に記載した者は	出願人及び発明者である (applicant and inventor) 米国のみ (US only)
III-3-2	右の指定国についての出願人である。	
III-3-4ja	氏名(姓名)	岡田 隆宏
III-3-4cn	Name (LAST, First)	OKADA, Takahiro
III-3-5ja	あて名:	141-0001 日本国 東京都 品川区 北品川6丁目7番35号 ソニー株式会社内
III-3-5cn	Address:	c/o SONY CORPORATION 7-35, Kitashinagawa 6-chome, Shinagawa-ku, Tokyo 141-0001 Japan
III-3-6	国籍 (国名)	日本国 JP
III-3-7	住所 (国名)	日本国 JP
III-4 III-4-1	その他の出願人又は発明者 この欄に記載した者は	出願人及び発明者である (applicant and inventor) 米国のみ (US only)
III-4-2	右の指定国についての出願人である。	
III-4-4ja	氏名(姓名)	池田 保
III-4-4cn	Name (LAST, First)	IKEDA, Tamotsu
III-4-5ja	あて名:	141-0001 日本国 東京都 品川区 北品川6丁目7番35号 ソニー株式会社内
III-4-5cn	Address:	c/o SONY CORPORATION 7-35, Kitashinagawa 6-chome, Shinagawa-ku, Tokyo 141-0001 Japan
III-4-6	国籍 (国名)	日本国 JP
III-4-7	住所 (国名)	日本国 JP

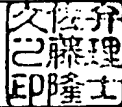
## 特許協力条約に基づく国際出願願書

原本 (出願用) - 印刷日時 2000年03月10日 (10. 03. 2000) 金曜日 14時14分23秒

IV-1  IV-1-1)a IV-1-1cn IV-1-2)a   IV-1-2cn   IV-1-3 IV-1-4	代理人又は共通の代表者、通知のあて名 下記の者は国際機関において下記のごとく出願人のために行動する。 氏名 (姓名) Name (LAST, First) あて名:  Address:   電話番号 ファクシミリ番号	<b>代理人 (agent)</b>  <b>佐藤 隆久</b> <b>SATOH, Takahisa</b> <b>111-0052 日本国</b> <b>東京都 台東区</b> <b>柳橋2丁目4番2号 宮木ビル4階</b> <b>創造国際特許事務所</b> <b>SOHSHIN INTERNATIONAL PATENT OFFICE</b> <b>4F Miyaki Bldg.,</b> <b>4-2, Yanagibashi 2-chome,</b> <b>Taito-ku, Tokyo 111-0052</b> <b>Japan</b> <b>03-3866-4012</b> <b>03-3866-4022</b>
V V-1	<b>国の指定</b> (他の種類の保護又は取扱いを求める場合には括弧内に記載する。)	<b>AP: GH GM KE LS MW SD SL SZ TZ UG ZW</b> <b>及びハラレプロトコルと特許協力条約の締約国である他の国</b> <b>EA: AM AZ BY KG KZ MD RU TJ TM</b> <b>及びユーラシア特許条約と特許協力条約の締約国である他の国</b> <b>EP: AT BE CH&amp;LI CY DE DK ES FI FR GB GR IE IT</b> <b>LU MC NL PT SE</b> <b>及びヨーロッパ特許条約と特許協力条約の締約国である他の国</b> <b>OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD</b> <b>TG</b> <b>及びアフリカ知的所有権機構と特許協力条約の締約国である他の国</b>
V-2	<b>国内特許</b> (他の種類の保護又は取扱いを求める場合には括弧内に記載する。)	<b>AE AL AM AT AU AZ BA BB BG BR BY CA CH&amp;LI CN</b> <b>CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR</b> <b>HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS</b> <b>LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO</b> <b>RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US</b> <b>UZ VN YU ZA ZW</b>
V-5	<b>指定の確認の宣言</b> 出願人は、上記の指定に加えて、規則4.9(b)の規定に基づき、特許協力条約のもとで認められる他の全ての国の指定を行う。ただし、V-6欄に示した国の指定を除く。出願人は、これらの追加される指定が確認を条件としていること、並びに優先日から15月が経過する前にその確認がなされない指定は、この期間の経過時に、出願人によって取り下げられたものとみなされることを宣言する。	
V-6	<b>指定の確認から除かれる国</b>	<b>なし (NONE)</b>

## 特許協力条約に基づく国際出願願書

原本（出願用） - 印刷日時 2000年03月10日（10. 03. 2000）金曜日 14時14分23秒

VI-1	先の国内出願に基づく優先権主張		
VI-1-1	先の出願日	1999年03月10日（10. 03. 1999）	
VI-1-2	先の出願番号	特願平11-063394	
VI-1-3	国名	日本国 JP	
VII-1	特定された国際調査機関 (ISA)	日本国特許庁 (ISA/JP)	
VIII	照合欄	用紙の枚数	添付された電子データ
VIII-1	願書	5	-
VIII-2	明細書	24	-
VIII-3	請求の範囲	4	-
VIII-4	要約	1	99809401. txt
VIII-5	図面	7	-
VIII-7	合計	41	
VIII-8	添付書類	添付	添付された電子データ
VIII-8	手数料計算用紙	✓	-
VIII-12	優先権証明書	優先権証明書 VI-1	-
VIII-16	PCT-EASYディスク	-	フレキシブルディスク
VIII-17	その他	納付する手数料に相当する特許印紙を貼付した書面	-
VIII-17	その他	国際事務局の口座への振込を証明する書面	-
VIII-18	要約書とともに提示する図の番号	2	
VIII-19	国際出願の使用言語名:	日本語 (Japanese)	
IX-1	提出者の記名押印		
IX-1-1	氏名 (姓名)	佐藤 隆久	

## 受理官庁記入欄

T0-1	国際出願として提出された書類の実際の受理の日	
T0-2	図面:	
T0-2-1	受理された	
T0-2-2	不足図面がある	
T0-3	国際出願として提出された書類を補完する書類又は図面であってその後期間内に提出されたものの実際の受理の日 (訂正日)	
T0-4	特許協力条約第11条(2)に基づく必要な補完の期間内の受理の日	
T0-5	出願人により特定された国際調査機関	ISA/JP
T0-6	調査手数料未払いにつき、国際調査機関に調査用写しを送付していない	

特許協力条約に基づく国際出願願書

99/8094-SNY

原本（出願用） - 印刷日時 2000年03月10日（10. 03. 2000）金曜日 14時14分23秒

## 国際事務局記入欄

II-I	記録原本の受理の日	
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PCT

## 国際調査報告

(法 8 条、法施行規則第40、41条)  
[PCT 18 条、PCT 規則43、44]

出願人又は代理人 99/8094 の書類記号 -SNY	今後の手続きについては、国際調査報告の送付通知様式(PCT/ISA/220) 及び下記5を参照すること。	
国際出願番号 PCT/JP00/01482	国際出願日 (日.月.年) 10.03.00	優先日 (日.月.年) 10.03.99
出願人 (氏名又は名称) ソニー株式会社		

国際調査機関が作成したこの国際調査報告を法施行規則第41条 (PCT 18 条) の規定に従い出願人に送付する。  
この写しは国際事務局にも送付される。

この国際調査報告は、全部で 3 ページである。

☐ この調査報告に引用された先行技術文献の写しも添付されている。

## 1. 国際調査報告の基礎

a. 言語は、下記に示す場合を除くほか、この国際出願がされたものに基づき国際調査を行った。

☐ この国際調査機関に提出された国際出願の翻訳文に基づき国際調査を行った。

b. この国際出願は、ヌクレオチド又はアミノ酸配列を含んでおり、次の配列表に基づき国際調査を行った。

☐ この国際出願に含まれる書面による配列表

☐ この国際出願と共に提出されたフレキシブルディスクによる配列表

☐ 出願後に、この国際調査機関に提出された書面による配列表

☐ 出願後に、この国際調査機関に提出されたフレキシブルディスクによる配列表

☐ 出願後に提出した書面による配列表が出願時における国際出願の開示の範囲を超える事項を含まない旨の陳述書の提出があった。

☐ 書面による配列表に記載した配列とフレキシブルディスクによる配列表に記載した配列が同一である旨の陳述書の提出があった。

2. ☐ 請求の範囲の一部の調査ができない (第 I 欄参照)。

3. ☐ 発明の単一性が欠如している (第 II 欄参照)。

4. 発明の名称は ☒ 出願人が提出したものを承認する。

☐ 次に示すように国際調査機関が作成した。

5. 要約は ☒ 出願人が提出したものを承認する。

☐ 第 III 欄に示されているように、法施行規則第47条 (PCT 規則38.2(b)) の規定により国際調査機関が作成した。出願人は、この国際調査報告の発送の日から 1 カ月以内にこの国際調査機関に意見を提出することができる。

6. 要約書とともに公表される図は、

第 2 図とする。 ☒ 出願人が示したとおりである。

☐ なし

☐ 出願人は図を示さなかった。

☐ 本図は発明の特徴を一層よく表している。

A. 発明の属する分野の分類 (国際特許分類 (IPC))  
Int. Cl<sup>7</sup> H04J11/00

B. 調査を行った分野

調査を行った最小限資料 (国際特許分類 (IPC))

Int. Cl<sup>7</sup> H04J11/00

最小限資料以外の資料で調査を行った分野に含まれるもの

日本国実用新案公報 1926-2000

日本国公開実用新案公報 1971-2000

国際調査で使用した電子データベース (データベースの名称、調査に使用した用語)  
JOIS

C. 関連すると認められる文献

引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号
E, A	JP, 2000-115119, A (株式会社次世代デジタルテレビジョン放送システム研究所), 21. 4月. 2000 (21. 04. 00), 第4頁左欄第49行目-第5頁左欄第10行目, 第3図 (ファミリーなし)	1-17
E, A	JP, 2000-101543, A (日本放送協会), 07. 4月. 2000 (07. 04. 00), 第5頁左欄第17行目-右欄第37行目, 第2図 (ファミリーなし)	1-17

☒ C欄の続きにも文献が列挙されている。

☐ パテントファミリーに関する別紙を参照。

\* 引用文献のカテゴリー

「A」 特に関連のある文献ではなく、一般的技術水準を示すもの

「E」 国際出願日前の出願または特許であるが、国際出願日以後に公表されたもの

「L」 優先権主張に疑義を提起する文献又は他の文献の発行日若しくは他の特別な理由を確立するために引用する文献 (理由を付す)

「O」 口頭による開示、使用、展示等に言及する文献

「P」 国際出願日前で、かつ優先権の主張の基礎となる出願

の日の後に公表された文献

「T」 国際出願日又は優先日後に公表された文献であって出願と矛盾するものではなく、発明の原理又は理論の理解のために引用するもの

「X」 特に関連のある文献であって、当該文献のみで発明の新規性又は進歩性がないと考えられるもの

「Y」 特に関連のある文献であって、当該文献と他の1以上の文献との、当業者にとって自明である組合せによって進歩性がないと考えられるもの

「&」 同一パテントファミリー文献

国際調査を完了した日

26. 05. 00

国際調査報告の発送日

13.06.00

国際調査機関の名称及びあて先

日本国特許庁 (ISA/JP)

郵便番号100-8915

東京都千代田区霞が関三丁目4番3号

特許庁審査官 (権限のある職員)

高野 洋



5K

9647

電話番号 03-3581-1101 内線 3555

## C (続き) 関連すると認められる文献

引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号
A	WO99/01956, A1 (株式会社次世代デジタルテレビジョン放送システム研究所), 14. 1月. 1999 (14. 01. 99), FIG. 1, FIG. 2, FIG. 3, FIG. 8&CN1231089, A	1-17
A	JP, 6-113272, A (株式会社東芝), 22. 4月. 1994 (22. 04. 94), 第4頁右欄第30行目-第5頁左欄第10行目, 第4図 (ファミリーなし)	14-16
A	映像メディア学会誌, (日), 20, 11月. 1998 (20. 11. 98), Vol. 52, No. 11, p. 1562-1566, “4. 地上デジタル放送の開発動向4-1伝送方式”, 第10図, 第11図, 第12図	1-17
A	技研公開講演・研究発表予稿集, (日), 22. 5月. 1998 (22. 05. 98), p. 67-72, “地上デジタル放送の伝送方式～固定受信および移動受信における伝送特性”, 第69頁第14行目-第70頁第29行目	1-17